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NOTICE OF ALLOWANCE AND FEE(S) DUE

36743

7590

08/20/2009

WOODSIDE IP GROUP P.O. BOX 61047 PALO ALTO, CA 94306 EXAMINER

RAO, G NAGESH

ART UNIT PAPER NUMBER

1792

DATE MAILED: 08/20/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/789.638	02/27/2004	David L. Bender	SOLAICX 4 US	9160

TITLE OF INVENTION: SYSTEM FOR CONTINUOUS GROWING OF MONOCRYSTALLINE SILICON

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	11/20/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correct maintenance fee notifica	ed below or directed oth	ng the Patent, advance on nerwise in Block 1, by (a	rders and notification of a) specifying a new con	of maintenance fee respondence addre	s will be ss; and/o	mailed to the current or (b) indicating a separ	correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) 36743 7590 08/20/2009 WOODSIDE IP GROUP P.O. BOX 61047 PALO ALTO, CA 94306				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.			
							(Signature)
			L				(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	OR	ATTO	DRNEY DOCKET NO.	CONFIRMATION NO.
10/789,638 TITLE OF INVENTION	02/27/2004 i: SYSTEM FOR CONT	INUOUS GROWING OF	David L. Bender MONOCRYSTALLIN	E SILICON	\$	SOLAICX 4 US	9160
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nonprovisional	YES	\$755	\$300	\$0		\$1055	11/20/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
RAO, G	NAGESH	1792	117-013000	_			
"Fee Address" ind PTO/SB/47; Rev 03-(Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Un	oondence address (or Cha B/122) attached. dication (or "Fee Address 22 or more recent) attach ND RESIDENCE DATA less an assignee is ident th in 37 CFR 3.11. Com	nge of Correspondence "Indication form and Use of a Customer A TO BE PRINTED ON	data will appear on the	to 3 registered pa atively, ngle firm (having a or agent) and the n ttorneys or agents. be printed. type)	s a memb ames of u If no nan	oper a 2	ocument has been filed for
4a. The following fee(s)			rinted on the patent): D. Payment of Fee(s): (F	lease first reapply			up entity Government hown above)
☐ Issue Fee☐ Publication Fee (No small entity discount permitted)☐ Advance Order - # of Copies			☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
	ns SMALL ENTITY statt	is. See 37 CFR 1.27.				TITY status. See 37 CF	
interest as shown by the	records of the United Sta	ites Patent and Trademark	COffice.	п тве аррисант; а г	egisierea	attorney or agent; or the	e assignee or other party in
Authorized Signature							
Typed or printed name							
This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	nation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this bu /irginia 22313-1450. DC 313-1450.	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the ONOT SEND FEES OR	on is required to obtain 1.14. This collection is depending upon the in e Chief Information Of COMPLETED FORMS	or retain a benefit be estimated to take be dividual case. Any ficer, U.S. Patent a TO THIS ADDRI	y the pub 2 minute commen nd Trader ESS. SEN	lic which is to file (and s to complete, including ts on the amount of tin mark Office, U.S. Depa D TO: Commissioner f	by the USPTO to process) g gathering, preparing, and the you require to complete rtment of Commerce, P.O. or Patents, P.O. Box 1450,

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10/789,638	02/27/2004	David L. Bender	SOLAICX 4 US	9160	
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WOODSIDE IP GROUP			RAO, G	NAGESH	
P.O. BOX 61047			ART UNIT	PAPER NUMBER	
PALO ALTO, CA	x 94306		1792		
			DATE MAILED: 08/20/2009		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 841 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 841 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)	
	10/789,638	BENDER, DAVID L.	
Notice of Allowability	Examiner	Art Unit	_
	G. NAGESH RAO	1792	
	G. NAGESTI NAO	1192	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED i or other appropriate comm GHTS . This application is	n this application. If not included unication will be mailed in due course. THIS	е
1. This communication is responsive to <u>5/29/09</u> .			
2. X The allowed claim(s) is/are <u>1-11,14,18-20,27-33 and 35</u> .			
 3.		or (f).	
2. ☐ Certified copies of the priority documents have		on No	
3. ☐ Copies of the certified copies of the priority does			
International Bureau (PCT Rule 17.2(a)).	suments have been receive	a in this national stage application from the	
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requirements	
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.		
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Revie	w (PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment o	r in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the			
6. DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT			
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Ir	nformal Patent Application	
Notice of Preferences Gled (110-032) Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413),	
 Information Disclosure Statements (PTO/SB/08), 	Paper No.	/Mail Date s Amendment/Comment	
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit	_	Statement of Reasons for Allowance	
of Biological Material	9.	<u>_</u> .	

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DETAILED ACTION

Terminal Disclaimer

1) The terminal disclaimer filed on 6/16/09 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of application 10/525,824 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Reasons for Allowance

2) The following is an examiner's statement of reasons for allowance: Upon review of applicant's remarks and amended claims, it is the examiner's position that the application has met the conditions of patentability. The terminal disclaimer filed removes the ODP issues.

The amended claims provide operable functionality that is imparted to impose structure to the claimed invention and limit its use based on how the pieces are arranged and interacting for functional and capable operability. The prior art fails to adequately disclose the separable controllable heater elements displaced in their specific position of the apparatus and functioning in a specific manner, as well the language pertaining to the crucible as well the controllable heater zones.

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The art applied would not obviate the claimed invention and in fact would teach away from applicant's claimed invention. Please see Attorney remarks for further information.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to G. NAGESH RAO whose telephone number is (571)272-2946. The examiner can normally be reached on 8:30AM-5PM (INDEPENDENT FLEX SCHEDULE).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MIKHAIL KORNAKOV can be reached on (571)272-1303. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 1792

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR

only. For more information about the PAIR system, see http://pair-

direct.uspto.gov. Should you have questions on access to the Private PAIR system,

contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you

would like assistance from a USPTO Customer Service Representative or access to

the automated information system, call 800-786-9199 (IN USA OR CANADA) or

571-272-1000.

/G. Nagesh Rao/

GAU-1792 Patent Examiner

/Robert M Kunemund/

Primary Examiner, Art Unit 1792